## Addition, Subtraction, Multiplication and Division: Problem Sorter

## Aim:

Solve problems involving addition, subtraction, multiplication and division.

I can decide which operation to use and explain why.

## Success Criteria:

I can decide whether a problem has one or two steps.

I can decide if I need to use addition, subtraction, multiplication or division.

## Key/New Words:

Solve, total, more, minus, plus, decrease, increase, sum, difference between, total, altogether, calculate, method, spent, change, nearest multiple, doubling, halving, multiply, multiplication, lots of, groups of, divide, division, fraction, percentage.

## Resources:

Lesson Pack
Whiteboards and pens

## Preparation:

Operation Signs - 1 per class
Differentiated Problem Sorter Activity Sheet

- 1 per child

Extra Challenge Activity Sheet - as required
RUCSAC Prompt Cards - as required

$$
\begin{aligned}
& \text { Prior Learning: } \begin{array}{l}
\text { It will be helpful if children have a secure understanding of place value, number bonds, multiplication facts and corresponding } \\
\text { number facts. }
\end{array}
\end{aligned}
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## Learning Sequence

| Head-to-Head: Select two children. On each of the slides from the Lesson Presentation, there is a question along |
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| with four possible answers. Each child only has one attempt to touch a correct answer on the board. The first child |
| to select the correct answer wins. Repeat with different pairs of children. |


| How Do You Solve a Problem? Read through the slides from the Lesson Presentation, modelling using RUCSAC to |
| :--- |
| help identify the operation/s that is/are required. Repeat with further examples if required. |


| Operations: Working with a partner, children use the 'RUC' in RUCSAC to identify whether the word problem requires |
| :--- |
| addition, subtraction, multiplication or division. The children stand next to the appropriate Operation Sign to indicate |
| their answer. Can the children select the key words in the word problems? Which operation did they choose? |


| Answer one-step |
| :--- |
| all four operations by |
| deciding which operation |
| to use to solve which |
| calculation. |


| Problem Sorter: Using the differentiated Problem Sorter Activity Sheets, children solve the word problems, |
| :--- |
| identifying the operation/s needed to solve them. Remind children to use the 'RUC' from RUCSAC to help them during |
| the task, providing RUCSAC Prompt Cards if required. |
| problems involving |
| all four operations |
| by deciding which |
| operations to use to |
| solve which calculation. |

Answer two-step
problems involving
all four operations
by deciding which
operations to use to
solve which calculation.
An Extra Challenge
Activity Sheet is
provided as an extension
activity if required.

## Masterit

Challengeit: Children work through the problems on these Year 6 Calculation Addition and Subtraction Problems Maths Mastery Challenge Cards.
Solveit: Children complete this fabulous Banana Bob's Fruit and Veg Stall Activity Sheet.

